

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An image forming apparatus comprising:

[[a]] an image data processing unit processing image data[[:]], the image data processing unit including:

~~an interface unit between~~ a graphics port and a peripheral device

interconnection port;

a print engine connected to the peripheral device interconnection port; and

a first memory provided on a side of the ~~processing unit~~ graphics port with respect to the image data processing unit, the first memory for storing the image data ~~graphics port,~~


~~wherein the processing unit stores the image data in the first memory, and transfers the image data stored in the first memory to the print engine directly through the graphics port, the interface unit and the peripheral device interconnection port.~~

Claim 2 (Currently Amended): The image forming apparatus as claimed in claim 1, further comprising a second memory connected to the ~~interface~~ image data processing unit so that the second memory is connected to the first memory via the graphics port, wherein the image data processing unit transfers the image data from the first memory to the second memory through the graphics port so as to transfer the image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 3 (Original): The image forming apparatus as claimed in claim 2, further comprising a compressor connected between the graphics port and the second memory and a decompressor connected to said second memory, wherein the compressor compresses the

image data transferred from the first memory to the second memory so as to store the compressed image data in the second memory, and the decompressor decompresses the compressed image data and stores the decompressed image data in the second memory so as to transfer the decompressed image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 4 (Original): The image forming apparatus as claimed in claim 1, further comprising a decompressor connected between the graphics port and the peripheral device interconnection port, wherein the processing unit compresses the image data by using a software and stores the compressed image data in the first memory, and the decompressor decompresses the compressed image data transferred from the first memory to the print engine.

 Claim 5 (Original): The image forming apparatus as claimed in claim 2, further comprising a decompressor connected between the second memory and the peripheral device interconnection port, wherein the processing unit compresses the image data by using a software and stores the compressed image data in the first memory, and the decompressor decompresses the compressed image data stored in the second memory and sends the decompressed image data to the print engine through the peripheral device interconnection port.

Claim 6 (Currently Amended): The image forming apparatus as claimed in claim 1, further comprising a decompressor connected to the second memory, wherein the processing unit compresses the image data by using a software and stores the compressed image data in the first memory, and the decompressor decompresses the compressed image data stored in

the second memory and stores the decompressed image data in the second memory so that the decompressed image data is transferred from the second memory to the print engine through the peripheral device interconnection port.

Claim 7 (Currently Amended): A method of transferring image data to a print engine through a peripheral device interconnection port, the method comprising the steps of:

storing the image data in a first memory;

transferring the image data from the first memory to an ~~interface~~ image data processing unit through a graphics port; and

transferring the image data from the ~~interface~~ image data processing unit to the print engine through the peripheral device interconnection port.

04  
Claim 8 (Original): The method as claimed in claim 7, further comprising the steps of:

transferring the image data from the first memory to a second memory through the graphics port; and

transferring the image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 9 (Original): The method as claimed in claim 8, further comprising the steps of:

compressing the image data transferred from the first memory to the second memory;

storing the compressed image data in the second memory;

decompressing the compressed image data stored in the second memory;

storing the decompressed image data in the second memory; and

transferring the decompressed image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 10 (Original): The method as claimed in claim 7, further comprising the steps of:

compressing the image data and storing the compressed image data in the first memory;

decompressing the compressed image data transferred from the first memory after passing through the graphics port; and

transferring the decompressed image data to the print engine through the peripheral device interconnection port.

Claim 11 (Original): The method as claimed in claim 8, further comprising the steps of:

compressing the image data and storing the compressed image data in the first memory;

transferring the compressed image data from the first memory to the second memory through the graphics port;

decompressing the compressed image data stored in the second memory; and

transferring the decompressed image to the print engine through the peripheral device interconnection port.

Claim 12 (Original): The method as claimed in claim 8, further comprising the steps of:

compressing the image data and storing the compressed image data in the first memory;

transferring the compressed image data from the first memory to the second memory through the graphics port;

decompressing the compressed image data stored in the second memory;

storing the decompressed image data in the second memory; and

transferring the decompressed image data from the second memory to the print engine through the peripheral device interconnection port.

---